TOWNSHIP OF UNION PUBLIC SCHOOLS



Grade 5 Mathematics

Adopted: August 18, 2020 Readopted: October 20, 2020

Mission Statement

students' intellectual curiosity, skills and knowledge, our students can achieve academically and socially, and every student is challenged, inspired, empowered, and respected as diverse learners. Through cultivation of contribute as responsible and productive citizens of our global community. integrity, strong family, and community partnerships. We promote a supportive learning environment where The mission of the Township of Union Public Schools is to build on the foundations of honesty, excellence,

Philosophy Statement

and community. students in general, providing therein for individual differences. The school operates as a partner with the home Township of Union Public School System is to formulate a learning climate conducive to the needs of all through its educational practices. It is the belief of the Board of Education that a primary function of the The Township of Union Public School District, as a societal agency, reflects democratic ideals and concepts

Unit I Module A

Unit Title: Mathematics – Operations on Decimals and Numerical Expressions – Unit 1 – Module A

Grade level: Grade 5

Timeframe: 5 weeks

Rationale

 $Grade\ 5-Operations\ on\ Decimals\ and\ Numerical\ Expressions-Unit\ I$

a multi-digit number, learners apply their previous understandings of adding and subtracting to add and subtract decimals. A focus of the unit 1 is to understand place value to the thousandths place. This concept builds on students' grade 4 understandings of decimals to the hundredths place. After examining the quantitative relationships that exist between the digits in place value positions of

symbols, write numerical expressions from a description, and interpret numerical expressions. engage learners in analyzing the structure of numerical expressions. Learners evaluate and write numerical expressions with grouping While learners read, write, and compare decimals to the thousandths place using base-ten numerals, number names, and expanded form, the focus of this unit is addition and subtraction of decimals to the hundredths place. The additional and supporting concepts and skills

Essential Questions

- How does the value of a digit compare to its neighboring digits?
- What happens to the value of a digit as it moves to the left on a place value chart?
- What happens to the value of a digit as it moves to the right on a place value chart?
- How are whole numbers and decimals written, compared, ordered, and rounded?

Standards (Taught and Assessed):

and 1/10 of what it represents in the place to its left 5.NBT.A.1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right

5.NBT.A.3 Read, write, and compare decimals to thousandths

- a. Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., $347.392 = 3 \times 100 + 4 \times 10$ $+7 \times 1 + 3 \times (1/10) + 9 \times (1/100) + 2 \times (1/1000).$
- b. Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.

5.NBT.A.4 Use place value understanding to round decimals to any place

Key: Major Cluster

uster Supporting Cluster

Additional Cluster

Highlighted Career Ready Practices and 21. Century Themes/Skills

- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills
- Responsible Decision-Making

Instructional Plan

Pre-Assessment and Reflection

Pre-Assessment

Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections

Standards Pre-Assessment

Tiered Instruction - 3 levels Modifications per students' IEPs RTI

	greater and moving to the right the value of the places are greater and moving to the right the value of the places are decreasing. Then use "loops"/"hops" to show every time you move a place to the left, the places are getting 10 times			5
	the thousandths and make observations of the relationships between the place value positions. Lead discussion to focus on: moving to			
	Activity #2: Review place value chart Have students list out the value of each	Place Value Digit Card Slide	is decreasing.	that a digit is 1/10 the value of the digit to its left
	each place is 10 times larger when moving to the left and each place is 1/10 of the previous place when moving to the right.	GO Math standards assessment	many places to move to the left because the number is increasing. Similarly, the number of zeros in 110,1100,11,000, etc tells you how many place value positions to move to the right because the number	5.NBT.A.1 – WALT recognize in a multi-digit number
RTI activities	 Recognize that each base 10 block represents a place value position. Identify the pattern/relationship that 	Toolbox assessment	Count the number of zeros in 10 times, 100 times, 1,000 times, etc tells you how	the digit to its right
Modifications per students' IEP iReady Toolbox student-led activities	Activity #1: Use base 10 blocks for students to make observations between the place value positions.	Exit Slips Standards Assessment	Use place value blocks to represent the difference of 10 times and 1/10 of Use a place value chart to loop left (10 times) or right (1/10 of)	5.NBT.A.1 – WALT recognize in a multi-digit number that a digit is 10 times the value of
Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections	Activities and Resources	Formative Assessment	Student Strategies	SLO-WALT We are learning to/that

times to the left, the places are 1,000 times larger in value be x10 x10 x10.) • Similarly, every time you mov to the right, the places are 1/11 previous places causing the pl decrease. (So if you hop two the right, the number will be 1 the starting number in value be 1/10 x 1/10.) Activity #3: Place Value Digit Card Slide- Have sudents create the digit card slide move it to the right and left (depen 10 times or 1/10 of). Discuss what happens to the value of a specific Activity #4: Place Value "Act It Out" - Have s arrange themselves in a place value taped on the group. Each student up a card with a digit. Have the si move to the right and left (depend times or 1/10 of) and discuss what to the value of a specific digit. Resources: Toolbox Unit 1 Lesson 1 Instruct Instruction Book Toolbox Tools for Instruction Tee Activities - Tools for Instruction Tee Activities - Tools for Instruction Tee Activities - Toolbox Unit 1 Lesson Unit 1 Lesson Tee Activities - Toolbox Unit 1 Lesson Tee Toolbox Unit 1 Lesson Tee Activities - Tools for Instruction Tee Activities - Toolbox Unit 1 Lesson Unit 1 Lesson Tee Activities - Toolbox Unit 1 Lesson							
times to the left, the p 1,000 times larger in x10 x10 x10.) Similarly, every time to the right, the places causing decrease. (So if you let the right, the number it 1/10 x 1/10.) Activity #3: Yactivity #3: Yace Value Digit Card Students create the digit conove it to the right and left of times or 1/10 of). Distingupens to the value of a vactivity #4: Yace Value "Act It Out" paped on the group. Each apped on the group. Each apped on the group. Each apped on the right and left imes or 1/10 of) and disc of the value of a specific of the value of a sp					4		
cause cause of the aces to places to places to places to places to places to places to the ecause reading on the and adding on the thappens to thappens - Ready - Ready - Ready	Activities - Tools for Instruction On-level - Toolbox Unit 1 Lesson 1	Practice & Problem Solving Book Toolbox Tools for Instruction Teacher-led	Toolbox Unit 1 Lesson 1 Instruct - Ready Instruction Book	Resources: Toolbox Unit 1 Lesson 1 Instruct - Interactive Tutorial - Understand Place Value	Activity #4: Place Value "Act It Out" - Have students arrange themselves in a place value chart taped on the group. Each student will hold up a card with a digit. Have the students move to the right and left (depending on 10 times or 1/10 of) and discuss what happens to the value of a specific digit.	Activity #3: Place Value Digit Card Slide- Have students create the digit card slide and move it to the right and left (depending on 10 times or 1/10 of). Discuss what happens to the value of a specific digit.	

	Khan Academy decimal place value lessons			1
	GoMath textbook			
	On level - Toolbox Unit 1 Lesson 3 Student-led Activity - Decimal Number Forms			
	Toolbox Unit 1 Lesson 3 Teacher-led Activities - Tools for Instruction			
	Toolbox Unit 1 Lesson 3 Practice - Practice & Problem Solving Book		,	
	Toolbox Unit 1 Lesson 3 Instruct - Ready Instruction Book	3 -		
	Resources: Toolbox Unit 1 Lesson 3 Instruct Interactive Tutorial - Read and Write Decimals			number names, and expanded form
	 Rotate through creating/drawing, verbalizing/word form, and expanded form.) 			5.NBT.A.3a – WALT write decimals to thousandths using base-ten numerals,
	 verbalize what they have (& write down the word form) tell the value of each digit (& write down the expanded form). 	GO Math standards assessment		expanded form
RTI activities	 model the decimal and draw the model 	Toolbox assessment		number names, and
iReady Toolbox student-led activities	ten blocks	Assessment	and expanded form of the number.	decimals to thousandths using hase-ten numerals
Modifications per students' IEP	Activity #1: Base Ten Blocks	Exit Slips	Use a place value chart to place the digits of a number. Then, write the word form	5.NBT.A.3a – WALT read
	GoMath textbook	E		
	Student-led Activities			

WALT round decimals to any place using place value understandino value understandino Think of the two rounded options for a decimal (the decimal with the same digit that is to be rounded and the decimal place using place understandino value understandino value understandino value and the digit that is to be rounded and the decimal value understandino value unde		5.NBT.A.3b – Align decimals vertically and compare two decimals to thousandths based on place value understanding Exit Slips Activity #1: Activity #1: 5.NBT.A.3b – Align decimals vertically and compare two decimals to thousandths using >, Exit Slips Activity #1: 5.NBT.A.3b – Align decimals vertically and compare each digit from left to right. Standards Use Base-ten blocks to represent two decimals. Have students make observations and discuss which decimal is greater. 5.NBT.A.3b – Toolbox Activity #2: 5.NBT.A.3b – GO Math comparisons of two decimals to thousandths using >, Use a place-value chart to align the digits of a given decimal below the correct place a second decimal below, placing each digit below the correct place value positions. Compare the corresponding digits from left to right	IXL Grade 5 practice: IXL G.1 IXL G.3 IXL G.5 IXL G.16
o place a decimal. s observations of how to the rounded options.	al is greater. o plot two decimals. ecimals are located in cimal is greater. son 4 Teacher-led or Instruction	s to represent two dents make scuss which decimal is arr to align the digits hart to align the digits below the correct place en, place a second ing each digit below the positions. Compare igits from left to right	3 3 .16
Modifications per students' IEP iReady Toolbox student-led activities		Modifications per students' IEP iReady Toolbox student-led activities RTI activities	

								Look at the digit to the right of the place to be rounded and use "5 or above, give it a shove" and "4 or below, leave it alone".	determine whether to round up or round down.	to the right of the aight to be rounded to
								standards assessment	GO Math	LOOIDOX
On Level - Toolbox Unit 1 Lesson 4 Student-led Activity - Round Decimal Numbers	On Level - Toolbox Unit 1 Lesson 4 Student-led Activity - Use Comparing & Rounding Vocabulary	Toolbox Unit 1 Lesson 4 Teacher-led Activities - Tools for Instruction	Toolbox Unit 1 Lesson 4 Practice - Practice & Problem Solving Book	Toolbox Unit 1 Lesson 4 Instruct - Ready Instruction Book	Toolbox Unit 1 Lesson 4 Instruct Interactive Tutorial - Practice: Round Decimals	Resources: Toolbox Unit 1 Lesson 4 Instruct Interactive Tutorial - Round Decimals	Activity #3: Students can use Base-ten blocks to model a decimal. Then, the students can model the decimal when rounded down and model the decimal when rounded up. Students can then compare the model of the original decimal to the models of the two rounded options and discuss which decimal is the better choice to round to.	for the given decimal to round to. Students may look at the digit to the right of the digit to be rounded to assist with rounding.	Have students list two decimals that a given decimal falls between by focusing on the digit to be rounded. Discuss which of	Have students list two decimals that a

<u>IXL G.7</u>	IXL Grade 5 practice	Go Math textbook

Benchmark Assessment 1

Benchmark Assessment	enchmark Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.NBT.1/5.NBT.3a	Modifications per students' IEP

Benchmark Assessment 2

Benchmark Assessment	Benchmark Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.NBT.3b / 5.NBT.4	Modifications per students' IEP

Summative Assessments

5.NBT.1, 5.NBT.3, 5.NBT.4 standards Modifications per students' IEP assessment	Summative Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
assessment	5.NBT.1, 5.NBT.3, 5.NBT.4 standards	Modifications per students' IEP
	assessment	

mathematical scenarios in which they have to analyze, solve, and provide written explanations to support their mathematical reasoning.		Interdisciplinary Connections Modifica Gifted, A Reflectio
Tiered questions	Modifications per students' IEP	Modifications (ELL, Special Education Gifted, At-risk of Failure, 504) and Reflections

Unit I Module B

Unit Title: Mathematics - Operations on Decimals and Numerical Expressions - Unit 1 - Module B

Grade level: Grade 5 Timeframe: 4 weeks

Grade 5 — Operations on Decimals and Numerical Expressions — Unit 1

Rationale

a multi-digit number, learners apply their previous understandings of adding and subtracting to add and subtract decimals. decimals to the hundredths place. After examining the quantitative relationships that exist between the digits in place value positions of A focus of the unit 1 is to understand place value to the thousandths place. This concept builds on students' grade 4 understandings of

symbols, write numerical expressions from a description, and interpret numerical expressions. engage learners in analyzing the structure of numerical expressions. Learners evaluate and write numerical expressions with grouping the focus of this unit is addition and subtraction of decimals to the hundredths place. The additional and supporting concepts and skills While learners read, write, and compare decimals to the thousandths place using base-ten numerals, number names, and expanded form

considering the Student Learning Objective. Note: Double asterisks (**) indicate that the example(s) included within the New Jersey Student Learning Standard may be especially informative when

Essential Questions

- How do you add and subtract decimals?
- How can you use modeling to demonstrate adding and subtracting decimals?
- What is the "order of operations," and why is it important?
- How do you solve numerical expressions using the "order of operations"?
- How can you write numerical expressions to represent calculations?

Standards

Standards (Taught and Assessed):

the reasoning used 5.NBT.B.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain

5.0A.A.1 Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols

example, express the calculation "add 8 and 7, then multiply by 2" as $2 \times (8 + 7)$. Recognize that $3 \times (18932 + 921)$ is three times as large 5.0A.A.2 Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them. For as 18932 + 921, without having to calculate the indicated sum or product.

Key: Major Cluster

Supporting Cluster

Additional Cluster

Highlighted Career Ready Practices and 21. Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

Social-Emotional Learning Competencies

- Self-Awareness Self-Management
- Social Awareness
- Relationship Skills
- Responsible Decision-Making

Instructional Plan

Pre-Assessment and Reflection

	odifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Standards Pre-Assessment Tier	iered Instruction - 3 levels
Moc	odifications per students' IEPs
RTI	4

SLO-WALT	Student Strategies	Formative	Activities and Resources	Modifications
		Assessment		(ELL, Special
We are learning to/that				Education, Gifted,
				At-risk of Failure,
				504) and
				Reflections

						reasoning used	drawing, and explain the	relate the strategy to the	5.NBT.B.7 - WALT	relationship between addition and subtraction	operations, and/or the	strategies based on place	hundredths using	and subtract decimals to	5.NBT.B.7 - WALT add	drawings	concrete models or			5.NBT.B.7 – WALT add
										zeros in empty place value positions. Then, add/subtract.	position. Write in "place holder"	Vertically stack the decimals		regroup as needed.	the quantity of the subtrahend	(original decimal). Then, cross out	Draw a model of the mirrord	the sum. Regroup as needed.	addends and combine them to find	Draw a model of the decimal
					-							assessment	standards	GO Math	assessment	Toolbox	Assessment	Standards		Exit Slips
GO Math textbook	On Level - Toolbox Unit 1 Lesson 7 Student-led Activity	Toolbox Unit 1 Lesson 7 Practice - Add & Subtract Decimals	Toolbox Unit 1 Lesson 7 Instruct - Ready Instruction Book	Toolbox Unit 1 Lesson 7 Instruct - Interactive Tutorial - Subtract Decimals	Resources: Toolbox Unit 1 Lesson 7 Instruct - Interactive Tutorial - Add Decimals	 Have students present and discuss which approach would be most appropriate/easiest to solve each problem. 	approaches, specifically focused on properties.	 Have students add/subtract prices from a budget using multiple 		Activity #3: Add/Subtract Prices and Budget from a Menu-	מושי שוטינומיי	vertically in a place value chart and then	Have students stack the decimals	Value Chart-	Activity #2: Add/Subtract Decimals using a Place	case to ottoris as they solve.	Have students record/draw models of the	Blocks with regrouping as needed-	Add/Subtract Decimals using Base Ten	Activity #1:
															K11 activities		shident-led activities		students' IEP	Modifications per

RI State	IXL 0.5 IXL 0.6	Khan Academy Algebraic Thinking lessons IXL Grade 5 lessons:	GO Math textbook	On level - Toolbox Unit 3 Lesson 19 Student-led Activity - Make It True	On level - Toolbox Unit 3 Lesson 19 Student-led Activity - Less Than, Equal to, Greater Than	numerical expression Resources: Toolbox Unit 3 Lesson 19 Instruct - Interactive Tutorial - Numerical Expressions and Order of Operations	parentheses, brackets, or braces to group parts of a	ου (td	evaluate numerical solve numerical expressions. Cross out each letter of PEMDAS as each parentheses, brackets, and braces, including and braces, including and braces.	IXL H.1 IXL H.2	IXL Grade 5 lessons:	Khan Academy Subtract Decimals lesson	Khan Academy Add Decimals lesson
I de	16	ebraic Thinking		Unit 3 Lesson 19 y - Make It True	Unit 3 Lesson 19_ y - Less Than, Equal	sson 19 Instruct Numerical der of Operations	s Bingo	s Song RTI activities	ith PEMDAS or students' IEP s, review the meaning provide direct iReady Toolbox student-led activities	lio	is:		d Decimals lesson

					,	interpret numerical expressions to compare their values without evaluating them	description that record calculations with numbers 5.00.0.2 – WALT	rite	
*								Highlight keywords such as "each," "every," "times," "more," "less," "spent," "left over," etc.	
						standards assessment	Toolbox assessment	Exit Slips Standards Assessment	
On level - Toolbox Unit 3 Lesson 19 Student-led Activity - Write a Numerical Expression	Toolbox Unit 3 Lesson 19 Teacher-led Activities - Tools for Instruction	Toolbox Unit 3 Lesson 19 Practice & Problem Solving Book	Toolbox Unit 3 Lesson 19 Instruct - Ready Instruction Book	Resources: Toolbox Unit 3 Lesson 19 Instruct - Interactive Tutorial - Write and Evaluate Expressions	Activity #3: Have students create their own word problems and the corresponding numerical expressions. Students can exchange word problems and try to come up with the correct numerical expressions.	Activity #2: Using example word problems, aid students in highlighting/breaking down each step of the word problems in order to then show how it contributes to creating a numerical expression.	(addition, subtraction, multiplication, and division). Also, discuss/list keywords that would elicit parentheses/grouping in a numerical expression.	Activity #1: With student suggestions, discuss/create a 5 column list of keywords in word problems that relate to the 4 operations	IXL 0
							student-led activities RTI activities	Modifications per students' IEP iReady Toolbox	

<u>IXL 0.3</u> <u>IXL 0.4</u>	IXL Grade 5 lessons:	Khan Academy Algebraic Thinking lessons	GO Math textbook	On level - Toolbox Unit 3 Lesson 19 Student-led Activity - Find the Expression

Benchmark Assessment 1

Benchmark Assessment	k Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.NBT.7	Modifications per IEPs

Benchmark Assessment 2

Benchmark Assessment	Benchmark Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.0A.1 , 5.0A.2	Modifications per IEPs

Summative Assessment	Summative Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.NBT.7 assessment 5.OA.1 / 2 assessment	Modifications per IEPs

Interdisciplinary Connections

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Open-ended and Extended Constructed Responses - Students will be given real-world	Modifications per students' IEP
mathematical scenarios in which they have to analyze, solve, and provide written explanations to support their mathematical reasoning.	Tiered questions

Unit II Module A

Module A Unit Title: Mathematics – Decimal Multiplication & Division and Volume Concepts – Unit 2

Grade level: Grade 5 Rationale Timeframe: 5 weeks

Grade 5 - Decimal Multiplication & Division and Volume Concepts - Unit 2

operations, learner represent these concepts with models and drawings, before using other various strategies. Similarly, learners divide algorithm. These concepts lay the foundation for introducing learners to multiplication of decimals to hundredths. As with other of multiplying by powers of 10. They continue work building fluency with multiplication of whole numbers using the standard unit begins with learners analyzing and explaining patterns in the number of zeros and the placement of the decimal point in the context whole numbers and use concrete models, drawings, and various strategies to divide decimals to hundredths This unit focuses on the concepts of volume, decimal multiplication and division, and fluency with whole number multiplication. The

standard and non-standard units. They relate volume to the operations of multiplication and addition and solve real world and solid figures, understand foundational concepts of volume measurement, and measure volumes by counting unit cubes of various mathematical problems by applying volume formulas $V = l \times w \times h$ and $V = B \times h$ to rectangular prisms with whole number edge in grade 5, learners pack rectangular prisms with unit cubes to develop the concept of volume. They recognize volume as an attribute of In the final module of this unit, learners build upon earlier work in grade 3 tiling rectangular figures to develop the concept of area. Now

figures composed of right rectangular prisms. lengths. To conclude the unit, learners recognize volume as additive and use the concept to determine volumes of composite solid

Essential Questions

What is a "power of ten"?

What happens to a number when it is multiplied by a "power of ten"?

What happens to a number when it is divided by a "power of ten"?

What are common measurement systems that I will come across in everyday life?

How can I convert customary units of length? What units are used?

How can I convert customary units of weight? What units are used?

How can I convert customary units of capacity? What units are used?

How can I convert metric units? What units are used?

How do I multiply two multi-digit whole numbers using the standard algorithm? How can I use modeling and/or place value to multiply decimals?

Standards

Standards (Taught and Assessed):

placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10. 5.NBT.A.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the

use these conversions in solving multi-step, real world problems. 5.MD.A.1 Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and

5.NBT.B.5 Fluently multiply multi-digit whole numbers using the standard algorithm.

value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used. 5.NBT.B.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place

Key:

Major Cluster

Supporting Cluster

Additional Cluster

Highlighted Career Ready Practices and 21. Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.

- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness Relationship Skills
- Responsible Decision-Making

Instructional Plan

Pre-Assessment and Reflection

Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Standards Pre-Assessment	Standards Pre-Assessment Tiered Instruction - 3 levels
	Modifications per students' IEPs
	RTI

		Toolbox		by powers of 10
iReady Toolbox student-led activities	 Make observations of multiplying by 10 repetitively in relation to the 	Assessment	point to the right.	of the ultiplying
Modifications per students' IEP	Activity #1: Relating Powers of 10 to Place Value -	Exit Slips	Recall that when multiplying by powers of 10, the exponent tells you have many times to make the decimal	5.NBT.A.2 – WALT explain patterns in the
Education, Gifted, At-risk of Failure, 504) and Reflections		Assessment		We are learning to/that
Modification	Activities and Resources	Formative	Student Strategies	SLO-WALT

					6.		5.NBT.A.2 – WALT denote powers of 10 by using whole-number exponents	5.NBT.A.2 – WALT explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10
								Recall that when dividing by powers of 10, the exponent tells you how many times to move the decimal point to the left.
		0			9		3	assessment GO Math standards assessment
On-level - Toolbox Unit 1 Lesson 2 Student-led Activities - Patterns of	Toolbox Unit 1 Lesson 2 Practice - Understand Powers of Ten	Toolbox Unit 1 Lesson 2 Instruct - Ready Instruction Book	Toolbox Unit 1 Lesson 2 Instruct - Interactive Tutorial - Understand Powers of Ten	Resources:	Activity #4: Place Value "Act It Out" - Revisit this activity from Unit 1A. However, now have students use this activity with decimals and multiplying/dividing by powers of 10	Activity #3: Place Value Digit Card Slide- Revisit this activity from Unit 1A. However, now have students use this activity with decimals and multiplying/dividing by powers of 10	Activity #2: Create paper accordions of powers of 10 exponents	 value of each place in a place value chart. Use Base-ten blocks to prove observations. Make observations of dividing by 10 repetitively in relation to the value of each place in a place value chart. Use Base-ten blocks to prove observations.
							P	KII activities

	5.MD.A.1 – WALT convert among different-sized standard measurement units within a given measurement system 5.MD.A.1 – WALT use conversions in solving multi-step, real world problems	
	Recall that when converting a smaller unit to a larger unit, you will divide because you are grouping small units together to make larger units. Recall that when converting a larger unit to a smaller unit, you will multiply because you are breaking the larger units into smaller units. For customary conversions of capacity, recall "Gallon Person" or Gallon City	
	Exit Slips Standards Assessment Toolbox assessment GO Math standards assessment	
Activity #4: Metric System - Introduce, discuss real-world items for each unit, and try conversions on real-word items/examples Resources: Toolbox Unit 4 Lesson 21 Instruct - Interactive Tutorial - Solve Word Problems Involving Measurement	Activity #1: Customary Length - Introduce, discuss real-world items for each unit, and try conversions on real-word items/examples Activity #2: Customary Weight - Introduce, discuss real-world items for each unit, and try conversions on real-word items/examples Activity #3: Customary Capacity - Introduce the Gallon Person or Gallon City and try conversions on real-word items/examples	Zeros On-level - Toolbox Unit 1 Lesson 2 Student-led Activities - Powers of Ten Vocabulary Match GO Math textbook Khan Academy Powers of Ten lessons IXL Grade 5 lessons: IXL E.3
	Modifications per students' IEP iReady Toolbox student-led activities RTI activities	

	5.NBT.B.5 – WALT multiply multi-digit whole numbers using the standard algorithm working towards accuracy and efficiency											
	Recall that when multiplying by a 2 or 3-digit number, think of your second factor in expanded form. Ex: 123 x 45 = You would multiply 123 x 5 and then 123 x 40. Add your two products. You can also use two different colors to connect the value of each digit in your second factor with the corresponding product. Be sure to align your digits. (You can use grid paper to assist with this.)											
\ominus	Exit Slips Standards Assessment Toolbox assessment GO Math standards assessment											
	Activity #1: Direct instruction using grid paper (If needed, students can use two different colors to show the two different products corresponding with the digits of the second factor) Activity #2: Calculating Our School-wide Book Carbon Footprint- Students will calculate the total number of pages in one of their school books (textbooks, ELA chapter books, etc) for	IXL Z.22	144	$\frac{\text{IXL } Z.2}{\text{IXL } Z.4} \frac{\text{IXL } Z.3}{\text{IXL } Z.13}$	IXL Grade 5 lessons:	Khan Academy Converting units of measure	GO Math textbook	On-level - Toolbox Unit 4 Lesson 22 Student-led Activities	On-level - Toolbox Unit 4 Lesson 21 Student-led Activities	Toolbox Tools for Instruction Teacher- led Activities - Tools for Instruction	Toolbox Unit 4 Lesson 21 Practice - Practice & Problem Solving Book	Toolbox Unit 4 Lesson 21 Instruct - Ready Instruction Book
	Modifications per students' IEP iReady Toolbox student-led activities RTI activities											

5.NBT.B.7 – WALT multiply decimals to hundredths using models or drawings											
Recall that when multiplying by a decimal less than 1, recall that this will cause your product to be less than the other factor.											
Exit Slips Standards Assessment											
Activity #1: Multiply a Decimal and Whole # - Hands-on with Base-ten blocks and recording drawings in notebooks.	IXL C.12 IXL C.15	IXL Grade 5 lessons:	Khan Academy multi digit multiplication	GO Math textbook	On-level - Toolbox Unit 1 Lesson 5 Student-led Activities - Equivalent Multiplication Expressions	On-level - Toolbox Unit 1 Lesson 5 Student-led Activities - Use Multiplication Vocabulary	Toolbox Unit 1 Lesson 5 Practice - Practice & Problem Solving Book	Toolbox Unit 1 Lesson 5 Instruct - Ready Instruction Book	Toolbox Unit 1 Lesson 5 Instruct - Interactive Tutorial - Practice: Multiplication of Whole-numbers	Resources: Toolbox Unit 1 Lesson 5 Instruct - Interactive Tutorial - Multiply Whole- numbers	their entire class (2-digit number) as well as all the students in the entire school (3-digit number). Rotate through calculating with various schoolbooks.
Modifications per students' IEP iReady Toolbox student-led activities			1177								

	5.NBT.B.7 – WALT relate the strategy to the concrete model or drawing, and explain the reasoning used	multiply decimals to hundredths using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction
		Recall that when multiplying by a decimal greater than 1, recall that this will cause your product to be more than the other factor.
	æ	assessment GO Math standards assessment
Resources: Toolbox Unit 1 Lesson 8 Instruct - Interactive Tutorial - Understand Place Value Toolbox Unit 1 Lesson 8 Instruct - Ready Instruction Book Toolbox Unit 1 Lesson 8 Practice - Practice & Problem Solving Book Toolbox Tools for Instruction Teacher- led Activities - Toolbox Unit 8 Lesson 1 Student-led Activities	 Review a variety of ways to multiply decimals - area model, distributive property, etc. Students will choose a method to solve a multiplying decimals problem. After, students will "show" how modeling using Base-ten blocks and/or drawings lead to the same answer. Last, students will "tell" how their model and/or drawing supports their work. 	Activity #2: Multiply a Decimal by another Decimal using an Area Model- Hands-on with Base-ten blocks and recording drawing in notebooks. Activity #3: Multiplying Decimals Review Show & Tell-
		K11 activities

IXL. I use grids	IXL I using area model	IXL I using blocks	IXL Grade 5 lessons:	Khan Academy Multiply Decimals	GO Math textbook

Benchmark Assessment 1

5.NBT.2, 5.OA.1 Modifications per IEPs

Benchmark Assessment 2

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.NBT.5. 5.NBT.7 (multiply decimals) Modifications per IEPs	Modifications per IEPs

Summative Assessments (add rows as needed)

Summative Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5 NRT 2 assessment	Modifications per IEPs
5.OA.1 assessment	
5.NBT.5 assessment	
5.NBT.7 assessment (only multiply decimals)	

Interdisciplinary Connections

Open-ended and Extended Constructed Responses - Students will be given real-world mathematical scenarios in which they have to analyze, solve, and provide written explanations to support their mathematical reasoning. Kenections Modifications per students' IEP	Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and
anations		Ketlections
Tierea	Open-ended and Extended Constructed Responses - Students will be given real-world	Modifications per students' IEP
lierea	mathematical scenarios in which they have to analyze, solve, and provide written explanations	
	to support their mathematical reasoning.	Tierea questions

Unit II Module B

Unit Title: Mathematics - Building Fractions & Decimal Notation - Unit 2 - Module B

Grade level: Grade 5

Timeframe: 3 weeks

Rationale

Grade 5 - Decimal Multiplication & Division and Volume Concepts - Unit 2

whole numbers and use concrete models, drawings, and various strategies to divide decimals to hundredths operations, learner represent these concepts with models and drawings, before using other various strategies. Similarly, learners divide algorithm. These concepts lay the foundation for introducing learners to multiplication of decimals to hundredths. As with other of multiplying by powers of 10. They continue work building fluency with multiplication of whole numbers using the standard unit begins with learners analyzing and explaining patterns in the number of zeros and the placement of the decimal point in the context This unit focuses on the concepts of volume, decimal multiplication and division, and fluency with whole number multiplication. The

figures composed of right rectangular prisms. lengths. To conclude the unit, learners recognize volume as additive and use the concept to determine volumes of composite solid mathematical problems by applying volume formulas $V = l \times w \times h$ and $V = B \times h$ to rectangular prisms with whole number edge standard and non-standard units. They relate volume to the operations of multiplication and addition and solve real world and solid figures, understand foundational concepts of volume measurement, and measure volumes by counting unit cubes of various in grade 5, learners pack rectangular prisms with unit cubes to develop the concept of volume. They recognize volume as an attribute of In the final module of this unit, learners build upon earlier work in grade 3 tiling rectangular figures to develop the concept of area. Now

Essential Questions

How can I use modeling, arrays, and/or place value to divide multi-digit whole numbers? How can I use modeling and/or place value to divide decimals?

Standards

Standards (Taught and Assessed):

using equations, rectangular arrays, and/or area models. place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by 5.NBT.B.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on

reasoning used. ** value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the 5.NBT.B.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place

Key:

Major Cluster

Supporting Cluster

Additional Cluster

Highlighted Career Ready Practices and 21. Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills
- Responsible Decision-Making

Instructional Plan

Pre-Assessment and Reflection

Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Standards Pre-Assessment	It Tiered Instruction - 3 levels
	Modifications per students' IEPs
	RTI

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Ready Instruction Book Toolbox Unit 1 Lesson 6 Practice	Ready Instruction Book Toolbox Unit 1 Lesson 6 Practice -				Toolbox Unit 1 Lesson 6 Instruct -	
Toolbox Unit 1 Lesson 6 Practice	Toolbox Unit 1 Lesson 6 Practice -				Ready Instruction Book	
Toolhov II it I I escan 6 Practice	Toolbox Unit 1 Lesson 6 Practice -					
TOGRACY CITE I POSSOTI O I INCHES -					Toolbox Unit 1 Lesson 6 Practice -	

	Resources:			
	Activity #4: Decimal Division Show & Tell-Students will present/"show" what strategies they used to solve various decimal division problems and describe/"tell" how they procedurally solved their work.	-		strategy to the concrete model or drawing, and explain the reasoning used
	Activity #3: Divide Decimals using Base-ten Blocks and Drawings	standards assessment	decompose your numbers.	relationship between addition and subtraction
RTI activities	Activity #2: Divide Decimals and Wholenumbers using Area Models	Toolbox assessment GO Math	Recall that when modeling decimal and whole-number	decimals to hundredths using strategies based on place value, properties of operations, and/or the
Modifications per students' IEP iReady Toolbox student-led activities	Activity #1: Divide Decimals and Wholenumbers using Base-ten Blocks and Drawings	Exit Slips Standards Assessment	Recall that when modeling decimal division with baseten blocks, you need to see how many groups of the divisor you can make.	5.NBT.B.7 – WALT divide decimals to hundredths using models or drawings 5.NBT.B.7 – WALT divide
	IXL D using partial quotients			
	IXL D using models			
	IXL Grade 5 lessons:			
R	Khan Academy Multi-digit multiplication and division			
	GO Math textbook	-		
	On-level - Toolbox Unit 6 Lesson 1 Student-led Activities - Solve Area Problems with Division			
	On-level - Toolbox Unit 6 Lesson 1 Student-led Activities - Division with Area Models			
	Practice & Problem Solving Book			

IXL J using blocks IXL J using area model	Khan Academy Divide Decimals IXL Grade 5 lessons:	GO Math textbook	Toolbox Tools for Instruction Teacher-led Activities - Tools for Instruction	Toolbox Unit 1 Lesson 9 Practice - Practice & Problem Solving Book	Toolbox Unit 1 Lesson 9 Instruct - Ready Instruction Book	Toolbox Unit 1 Lesson 9 Instruct - Interactive Tutorial - Practice: Divide Decimals	Toolbox Unit 1 Lesson 9 Instruct - Interactive Tutorial - Divide Decimals

Benchmark Assessment Mouncations (ELL, Special Education, Gliffed, Al-risk of Famure, 204)
5.NBT.6
5.NBT

Benchmark Assessment 2

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.NBT.7 (only division of decimals) Modifications per IEPs	Modifications per IEPs

Summative Assessments (add rows as needed)

Summative Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.NBT.6 assessment	Modifications per IEPs
5.NBT.7 assessment (only division of	
,	

Interdisciplinary Connections

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and
	Reflections
Open-ended and Extended Constructed Responses - Students will be given real-world	Modifications per students', IEP
mathematical scenarios in which they have to analyze, solve, and provide written explanations to support their mathematical reasoning.	Tiered questions

Unit II Module C

Module C Unit Title: Mathematics - Decimal Multiplication & Division and Volume Concepts - Unit 2 -

Grade level: Grade 5

Timeframe: 3 weeks

Rationale

Grade 5 – Decimal Multiplication & Division and Volume Concepts – Unit 2

algorithm. These concepts lay the foundation for introducing learners to multiplication of decimals to hundredths. As with other of multiplying by powers of 10. They continue work building fluency with multiplication of whole numbers using the standard unit begins with learners analyzing and explaining patterns in the number of zeros and the placement of the decimal point in the context operations, learner represent these concepts with models and drawings, before using other various strategies. Similarly, learners divide whole numbers and use concrete models, drawings, and various strategies to divide decimals to hundredths This unit focuses on the concepts of volume, decimal multiplication and division, and fluency with whole number multiplication. The

solid figures, understand foundational concepts of volume measurement, and measure volumes by counting unit cubes of various lengths. To conclude the unit, learners recognize volume as additive and use the concept to determine volumes of composite solic mathematical problems by applying volume formulas $V = l \times w \times h$ and $V = B \times h$ to rectangular prisms with whole number edge standard and non-standard units. They relate volume to the operations of multiplication and addition and solve real world and in grade 5, learners pack rectangular prisms with unit cubes to develop the concept of volume. They recognize volume as an attribute of figures composed of right rectangular prisms. In the final module of this unit, learners build upon earlier work in grade 3 tiling rectangular figures to develop the concept of area. Now

Essential Questions

What label is used when finding the volume of a rectangular prism, and what does the label represent? What formula can you use to find the volume of a rectangular prism? How does finding the volume of a rectangular prism relate to finding the area of a rectangle? What is the "volume" of a rectangular prism, and how do you find it?

Standards

Standards (Taught and Assessed):

- 5.MD.C.3 Recognize volume as an attribute of solid figures and understand concepts of volume measurement.
- a. A cube with side length 1 unit, called a "unit cube," is said to have "one cubic unit" of volume, and can be used to measure volume.
- b. A solid figure which can be packed without gaps or overlaps using n unit cubes is said to have a volume of n cubic units.

- 5.MD.C.4 Measure volumes by counting unit cubes, using cubic cm, cubic in., cubic ft., and non-standard units.
- 5.MD.C.5 Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume. a. Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes, e.g., to represent the associative property of multiplication.
- 5.MD.C.5 Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume
- b. Apply the formulas $V = l \times w \times h$ and $V = B \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole number edge lengths in the context of solving real world and mathematical problems.
- 5.MD.C.5 Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume

c. Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real world problems.

Key: Major Cluster

Supporting Cluster

Additional Cluster

Highlighted Career Ready Practices and 21. Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills
- CRP4. Communicate clearly and effectively and with reason
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills
- Responsible Decision-Making

Instructional Plan

Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Standards Pre-Assessment	Standards Pre-Assessment Tiered Instruction - 3 levels
	Modifications per students' IEPs
	RTI

SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.MD.C.3a - WALT a cube with side length 1 unit is called a "unit	Recall that "unit" cubes are 1 unit long, one unit wide, and 1	Exit Slips	Activity #1: Make Observations of Unit Cubes	Modifications per students' IEP
cube", has "one cubic unit" of volume, and can be used to	1 cubic unit.	Assessment	Measure the sides of the unit cubes to ensure same	iReady Toolbox student-led activities
measure volume	Recall that volume has a label of "cubic" because volume is	Toolbox	 measurement Discuss relationship between 	RTI activities
figure which can be packed	three-dimensional.	GO Math	 area and volume Have students "fill" various 	
without gaps or overlaps using (n) unit cubes has a volume of n cubic units		standards assessment	opened rectangular prisms and tell the volume of the objects	
			Activity #2: Unit Cubes Exploration	
			Have students create various	
			 Observe/discuss solid figures 	
			 With and without gaps Have students present their 	
			cubes, showing/explaining how	
			Compare and Contrast the	
			different ways students	
			showed/explained how many unit cubes they used	

5.MD.C.4 – WALT measure volumes by counting unit cubes, using cubic cm, cubic in., cubic ft., and non-standard units 5.MD.C.5a – WALT find the volume of a right rectangular prism with whole-number side										
Recall the formula: Volume = Length x Width x Height										
Exit Slips Standards Assessment Toolbox										
Activity #1: Revisit from above - Have students "fill" various rectangular prisms with unit cubes to find the volume • Focus on filling a layer (area) and multiplying this by the amount of layers in an object	IXL EE.13	Khan Academy Volume lessons IXL Grade 5 lessons:	GO Math textbook	On-level - Toolbox Unit 4 Lesson 24 Student-led Activities - Use Volume Vocabulary	On-level - Toolbox Unit 4 Lesson 24 Student-led Activities - Build a Rectangular Prism	Toolbox Tools for Instruction Teacher-led Activities - Tools for Instruction	Toolbox Unit 4 Lesson 24 Practice - Practice & Problem Solving Book	Toolbox Unit 4 Lesson 24 Instruct - Ready Instruction Book	Toolbox Unit 4 Lesson 24 Instruct - Interactive Tutorial - Practice: Measure Volume	Resources: Toolbox Unit 4 Lesson 24 Instruct - Interactive Tutorial - Understand & Measure Volume
Modifications per students' IEP iReady Toolbox student-led activities RTI activities			51							

	Activity #2: Composite Figure Task Cards			
	 prisms. Have students calculate the total volume 			
	breaking apart the composite figure into 2 or more rectangular	Standards Assessment		problems
RTI activities	Discuss what they need to do in order to find the volume of the entire frame. I and discussion to	assessment GO Math	to find the total volume for the composite figure.	overlapping parts, applying this technique to solve real world
student-led activities	observations of composite figures made out of unit cubes.	Toolbox	each of the smaller rectangular prisms and add them together	right rectangular prisms by adding
students' IEP iReady Toolbox	Composite Figures with Unit Cubes- Have students make	Standards Assessment	or more smaller, whole rectangular prisms (no gaps). Then calculate the volume of	volumes of solid figures
Marie and an artist and a state of the state	IXL EE.14	2		
	IXL EE.15 IXL EE.16			
	IXL Grade 5 lessons:			
	Khan Academy Volume lessons		Đ	
	GO Math textbook			
	On-level - Toolbox Unit 4 Lesson 26 Student-led Activities			
	Toolbox Tools for Instruction Teacher-led Activities - Tools for Instruction			
	Toolbox Unit 4 Lesson 26 Practice - Practice & Problem Solving Book			
	Toolbox Unit 4 Lesson 26 Instruct - Ready Instruction Book	R		
	Toolbox Unit 4 Lesson 26 Instruct - Interactive Tutorial - Practice: Volume of Rectangular Prisms			

Khan Academy Volume Lessons		
GoMath textbook		
On-level - Toolbox Unit 4 Lesson 27 Student-led Activities		
Toolbox Unit 4 Lesson 27 Practice - Practice & Problem Solving Book		
Toolbox Unit 4 Lesson 27 Instruct - Ready Instruction Book	¥1	
Resources: Toolbox Unit 4 Lesson 27 Instruct - Interactive Tutorial - Practice: Volume of Composite Figures		

5.MD.3 Modifications per IEPs 5.MD.4	Benchmark Assessment	Benchmark Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
	5.MD.3 5.MD.4	Modifications per IEPs

Benchmark Assessment 2

Benchmark Assessment Modifica	odifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.MD.5 Mo	difications per IEPs

Summative Assessments (add rows as needed)

ıcai	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflec

5.MD.5 assessment	5.MD.4 assessment	5.MD.3 assessment
		Modifications per IEPs

Interdisciplinary Connections

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Open-ended and Extended Constructed Responses - Students will be given real-world	Modifications per students' IEP
mathematical scenarios in which they have to analyze, solve, and provide written explanations to support their mathematical reasoning.	Tiered questions

Unit III Module A

Unit Title: Mathematics - Fractions - Unit 3 - Module A

Grade level: Grade 5 Rationale Timeframe: 3 weeks

Grade 5 - Fractions - Unit 3

solve word problems involving addition and subtraction of fractions, using benchmark fractions and number sense of fractions to in earlier grades. They use fraction equivalence from grades 3 and 4 to add and subtract fractions with unlike denominators. Learners estimate mentally and to assess the reasonableness of their answers. Unit 3 focuses on fraction ideas and introduces a number of fractions concepts. Learners build upon many fraction concepts developed

Next, learners extend previous understandings of multiplication to multiply a fraction or whole number by a fraction. Building on their grade 3 work with area, they find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit

products as rectangular areas fraction side lengths. They show that the area is the same as would be found by multiplying the side lengths and represent fraction

multiplication of fractions and represent problems using visual fraction models and equations. scaling and compare the size of the product to the size of the factors. They come to understand and explain that multiplying a given factor by a number greater than 1 leads to a product that is greater than the given factor. Learners solve real world problems involving In the final module of this unit, learners build upon earlier work with multiplication and division. They interpret multiplication as

by unit fractions. by the denominator $(a/b = a \div b)$. They solve word problems involving division of whole numbers that lead to answers in fraction form Learners then extend these previous understandings of division to divide unit fractions by whole numbers and to divide whole numbers To conclude this unit, learners are introduced to a new interpretation of fraction. They interpret a fraction as division of the numerator

Essential Questions

What are "common denominators," and why are they needed? How do you add and subtract fractions with unlike denominators?

How do you find an equivalent fraction?

How can you use estimating to validate fraction sums and differences?

What are "benchmark fractions," and how can they be used to estimate fraction sums and differences?

Standards

Standards (Taught and Assessed):

fractions in such a way as to produce an equivalent sum or difference of fractions with like denominators. For example, 2/3 + 5/4 = 8/12 + 1015/12 = 23/12. (In general, a/b + c/d = (ad + bc)/bd.) 5.NF.A.1 Add and subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent

observing that 3/7 < 1/2. fractions to estimate mentally and assess the reasonableness of answers. For example, recognize an incorrect result 2/5 + 1/2 = 3/7, by denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of 5.NF.A.2 Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike

Key:

Major Cluster

Supporting Cluster

Additional Cluster

Highlighted Career Ready Practices and 21. Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills
- Responsible Decision-Making

Instructional Plan

Pre-Assessment and Reflection

Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Standards Pre-Assessment	Standards Pre-Assessment Tiered Instruction - 3 levels
	Modifications per students' IEPs
	RTI

Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

Modifications per	Activity #1:	Exit Slips	Recall that you cannot add or	
Reflections				
Failure, 504) and				
Gifted, At-risk of				We are learning to/that
Special Education,		Assessment		
Modifications (ELI	Activities and Resources	Formative	Student Strategies	SLO-WALT

		5.NF.A.1 – WALT add and subtract fractions with unlike denominators, including mixed numbers, by replacing given fractions with equivalent fraction	5.NF.A.1 – WALT when adding or subtracting fractions, replacing given fractions with equivalent fraction produces an equivalent sum or difference of fractions with like denominators
		Recall that if a numerator is greater than the denominator, then you can rewrite your answer as a mixed number.	subtract fractions with unlike denominators without finding a common denominator because you would be adding or subtracting different size pieces.
		GO Math standards assessment	Standards Assessment Toolbox assessment
Toolbox Unit 2 Lesson 10 Instruct - Ready Instruction Book Toolbox Unit 2 Lesson 10 Practice - Practice & Problem Solving Book Toolbox Tools for Instruction Teacher-led Activities - Tools for Instruction On-level - Toolbox Unit 2 Lesson 10 Student-led Activities - Add & Subtract Fractions	Activity #4: Subtract Mixed Numbers with Regrouping/Renaming using Modeling and Standard Algorithm Resources: Toolbox Unit 2 Lesson 10 Instruct - Interactive Tutorial - Add & Subtract Fractions	Add/Subtract Fractions with Unlike Denominators using Modeling (Fraction Strips or Pattern Blocks) and Standard Algorithm Activity #3: Add/Sub Mixed #s with Unlike Denominators using Modeling (Fraction Strips or Pattern Blocks) and Standard Algorithm	"Fraction Action" Game- Have students make observations leading towards replacing a game piece with other equivalent game pieces (equivalent fractions)
			students' IEP iReady Toolbox student- led activities RTI activities

5.NF.A.2 – WALT solve word problems involving addition and subtraction of fractions including those with unlike denominators referring to the same whole	
Highlight keywords, such as "leftover," "extra," "more," etc.	
Exit Slips Standards Assessment Toolbox assessment GO Math standards assessment	
Activity #1: Add/Subtract Fractions with Unlike Denominators Task Cards Resources: Toolbox Unit 2 Lesson 11 Instruct Interactive Tutorial - Add & Subtract Fractions in Word Problems Toolbox Unit 2 Lesson 11 Instruct - Ready Instruction Book Toolbox Unit 2 Lesson 11 Practice - Practice & Problem Solving Book On-level - Toolbox Unit 2 Lesson 11 Student-led Activities - Use Fraction Vocabulary GO Math textbook Khan Academy Add/Subtract Fractions IXL Grade 5 lessons:	On-level - Toolbox Unit 2 Lesson 10 Student-led Activities - Fraction Sums and Differences GO Math textbook Khan Academy Add/Subtract Fractions IXL Grade 5 lessons: IXL L.18 IXL L.10 IXL L.18 IXL L.19
Modifications per students' IEP iReady Toolbox student-led activities RTI activities	

				5.NF.A.2 – WALT benchmark fractions and number sense can be used in estimating and assessing the reasonableness of answers to word problems involving addition and subtraction of fractions
				Recall that you can estimate fractions to the benchmarks: 0, 1/4, 1/2, 3/4, or 1 by comparing the numerator to the denominator. Use benchmarks to help you estimate decimal sums and differences as a form of validating finding the exact sums or differences.
				Exit Slips Standards Assessment Toolbox assessment GO Math standards assessment
Khan Academy Add/Subtract Fractions IXL L using benchmarks	GO Math textbook	Resources: On-level - Toolbox Unit 2 Lesson 11 Student-led Activities - Use Fraction Vocabulary	Activity #2: Estimate Fraction Sums and Differences Task Cards	Activity #1: Model and Compare to Create Benchmarks- • Have students model each fraction in the add/subtract fraction problem. • Students should compare each fraction to fraction strips or pattern blocks of 0, ½, ½, ¾, or 1. • Discuss which "benchmark" each fraction is most similar to and add/subtract.
				Modifications per students' IEP iReady Toolbox student-led activities RTI activities

Benchmark Assessment	Benchmark Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.NF.1	Modifications per IEPs

Summative Assessments (add rows as needed)

Summative Assessment Mo	Summative Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.NF.1 assessment Mo	Modifications per IEPs
5.NF.2 assessment	

Interdisciplinary Connections

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Open-ended and Extended Constructed Responses - Students will be given real-world	Modifications per students' IEP
mathematical scenarios in which they have to analyze, solve, and provide written explanations to support their mathematical reasoning.	Tiered questions

Unit III Module B

Unit Title: Mathematics – Fractions – Unit 3 – Module B

Grade level: Grade 5

Rationale

Timeframe: 4 weeks

Grade 5 - Fractions - Unit 3

estimate mentally and to assess the reasonableness of their answers. solve word problems involving addition and subtraction of fractions, using benchmark fractions and number sense of fractions to in earlier grades. They use fraction equivalence from grades 3 and 4 to add and subtract fractions with unlike denominators. Learners Unit 3 focuses on fraction ideas and introduces a number of fractions concepts. Learners build upon many fraction concepts developed

products as rectangular areas. grade 3 work with area, they find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit Next, learners extend previous understandings of multiplication to multiply a fraction or whole number by a fraction. Building on their fraction side lengths. They show that the area is the same as would be found by multiplying the side lengths and represent fraction

multiplication of fractions and represent problems using visual fraction models and equations. scaling and compare the size of the product to the size of the factors. They come to understand and explain that multiplying a given In the final module of this unit, learners build upon earlier work with multiplication and division. They interpret multiplication as factor by a number greater than 1 leads to a product that is greater than the given factor. Learners solve real world problems involving

by unit fractions. by the denominator $(a/b = a \div b)$. They solve word problems involving division of whole numbers that lead to answers in fraction form Learners then extend these previous understandings of division to divide unit fractions by whole numbers and to divide whole numbers To conclude this unit, learners are introduced to a new interpretation of fraction. They interpret a fraction as division of the numerator

Essential Questions

How do you multiply a fraction and whole-number?

How can you use modeling to multiply a fraction and a whole-number?

How do you multiply a fraction by a fraction?

How can you use modeling to multiply a fraction by a fraction?

How does multiplying by a fraction less than one, a fraction greater than one, and a fraction equal to one affect a product?

What operation does a fraction represent?

How can you use fractions to represent division problems?

How do you model and solve the division of a unit fraction by a non-zero whole-number?

How do you model and solve the division of a non-zero whole-number by a unit fraction?

Standards

Standards (Taught and Assessed):

- 5.NF.B.4 Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction.
- a. Interpret the product $(a/b) \times q$ as a part of a partition of q into b equal parts; equivalently, as the result of a sequence of operations $a \times q \div$ \times (4/5) = 8/15. (In general, (a/b) \times (c/d) = ac/bd.) b. For example, use a visual fraction model to show $(2/3) \times 4 = 8/3$, and create a story context for this equation. Do the same with (2/3)
- b. Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show and represent fraction products as rectangular areas. that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles,

5.NF.B.5 Interpret multiplication as scaling (resizing), by:

- a. Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.
- Explaining why multiplying a given number by a fraction greater than 1 results in a product greater than the given number (recognizing multiplying a/b by 1. multiplication by whole numbers greater than 1 as a familiar case); explaining why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; and relating the principle of fraction equivalence $a/b = (n \times a)/(n \times b)$ to the effect of
- equations to represent the problem. 5.NF.B.6 Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or
- pounds of rice should each person get? Between what two whole numbers does your answer lie? equally among 4 people each person has a share of size 3/4. If 9 people want to share a 50-pound sack of rice equally by weight, how many problem. For example, interpret 3/4 as the result of dividing 3 by 4, noting that 3/4 multiplied by 4 equals 3, and that when 3 wholes are shared numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the **5.NF.B.3** Interpret a fraction as division of the numerator by the denominator $(a/b = a \div b)$. Solve word problems involving division of whole

fractions. 5.NF.B.7 Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit

- a. Interpret division of a unit fraction by a non-zero whole number, and compute such quotients. For example, create a story context for $(1/3) \div 4 = 1/12$ because $(1/12) \times 4 = 1/3$. $(1/3)\div 4$, and use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that
- Interpret division of a whole number by a unit fraction, and compute such quotients. For example, create a story context for $4 \div (1/5)$, and because $20 \times (1/5) = 4$. use a visual fraction model to show the quotient. Use the relationship between multiplication and division to explain that $4 \div (1/5) = 20$

5.NF.B.7 Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit

c. Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit person get if 3 people share ½ lb. of chocolate equally? How many ⅓-cup servings are in 2 cups of raisins? fractions, e.g., by using visual fraction models and equations to represent the problem. For example, how much chocolate will each

find the amount of liquid each beaker would contain if the total amount in all the beakers were redistributed equally. grade to solve problems involving information presented in line plots. For example, given different measurements of liquid in identical beakers 5.MD.B.2 Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this

Key: Majo

Major Cluster

Supporting Cluster

Additional Cluster

Highlighted Career Ready Practices and 21. Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness
- Relationship Skills
- Responsible Decision-Making

Instructional Plan

Pre-Assessment and Reflection

Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Standards Pre-Assessment	Tiered Instruction - 3 levels
	Modifications per students' IEPs
	RTI

Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

	 Discuss how the arrays 			
	Standard Algorithm			100000
	 Drawing arrays 			**
	counters			fraction as $(a/b) \times (c/d) = ac/bd$
	 Model using arrays or 			the product of a fraction and a
				5.NF.B.4a WALT interpret
	Fractions using Arrays:		adding/subtraction fractions.	Communication control to the communication of the communication of the communication control to the com
	Multiply Whole-numbers and		denominator like you need to with	$q \div b **$
	Activity #2:		do not need to find a common	of a sequence of operations $a \times$
		assessment	multiply the two denominators. You	parts; equivalently, as the result
	to the standard algorithm	standards	multiply the two numerators and	of a partition of q into b equal
	 Discuss how the models relate 	GO Math	fraction by a fraction, you can	the product $(a/b) \times q$ as a part
	 Standard algorithm 		Recall that when multiplying a	J. W. D. +a W ALL I microret
RTI activities	 Drawing models 	assessment		S NE B As WAT T interpret
	 Model using pattern blocks 	Toolbox	the answer.	HUCHOH
student-led activities			product by the denominator to get	fraction
iReady Toolbox	Modeling:	Assessment	whole number and then divide this	fraction or whole number by a
	Fractions using Repeated	Standards	multiply the numerator times the	of multiplication to multiply a
students' IEP	Multiply Whole-numbers and		fraction by a whole number, you can	extend previous understandings
Modifications per	Activity #1:	Exit Slips	Recall that when multiplying a	5.NF.B.4 – WALT apply and
504) and Reflections				
At-risk of Failure,				(
Education, Gifted.				We are learning to/that
ŒLL. Special		Assessment	Ç	
Modifications	Activities and Resources	Formative	Student Strategies	SLO-WALT

	GO Math textbook Khan Academy Multiply Fractions IXL Grade 5 lessons:	Toolbox Unit 2 Lesson 13 Practice - Practice & Problem Solving Book Toolbox Tools for Instruction Teacher-led Activities - Tools for Instruction On-level - Toolbox Unit 2 Lesson 13 Student-led Activities	Resources: Toolbox Unit 2 Lesson 13 Instruct - Interactive Tutorial - Understand Products of Fractions Toolbox Unit 2 Lesson 13 Instruct - Ready Instruction Book	 Modeling using 2 color drawings drawings Standard Algorithm Discuss how the drawings relate to the standard algorithm 	relate to the standard algorithm Activity #3: Multiply Fractions using Two Color Drawings:

0																
	5.NF.B.5a. – WALT interpret multiplication as scaling (resizing) by comparing the size	9						areas	5.NF.B.4b. – WALT represent fraction products as rectangular	fractional side lengths to find areas of rectangles	the area found by tiling would be that same as multiplying the side lengths 5 NF R 4h - WAI T multiply	5.NF.B.4b. – WALT show that	fractional unit square in order to find the area of a rectangle that has fractional side lenoths	5.NF.B.4b. – WALT tile a rectangle using the appropriate		
\bigcirc	Multiplying by a fraction less than 1 will reduce your product.													Recall that Area = Length times Width		
	Exit Slips										GO Math standards assessment	Toolbox assessment	Standards Assessment	Exit Slips		
	Activity #1: Comparing the Resizing of Pictures-	IXL EE.6	IXL M.30 IXL M.18	IXL Grade 5 lessons:	Khan Academy Area of Rectangles	GO Math textbook	On-level - Toolbox Unit 2 Lesson 14 Student-led Activities	Toolbox Tools for Instruction Teacher-led Activities - Tools for Instruction	Toolbox Unit 2 Lesson 14 Practice - Practice & Problem Solving Book	Toolbox Unit 2 Lesson 14 Instruct - Ready Instruction Book	Resources: Toolbox Unit 2 Lesson 14 Instruct - Interactive Tutorial - Multiply Fractions to Find Area	Activity #2: Area with Fractions Task Cards	(Multiply Fractions using Two Color Drawings)	Activity #1: Revisit Activity #3 from above	IXL M.33 IXL M.34	IXL M.11 IXL M.20
Õ	Modifications per students' IEP											RTI activities	iReady Toolbox student-led activities	Modifications per students' IEP		

							given number	in a product smaller than the	multiplying a given number by a fraction less than one results	greater than one and why	than one results in a product	number by a fraction greater	5.NF.B.5b. – WALT explain		factor without performing the than I will make your product
											assessment	GO Math	assessment		ur product Assessment
Khan Academy Multiplication as	GO Math textbook	On-level - Toolbox Unit 2 Lesson 15 Student-led Activities	Toolbox Tools for Instruction Teacher-led Activities - Tools for Instruction	Toolbox Unit 2 Lesson 15 Practice - Practice & Problem Solving Book	Toolbox Unit 2 Lesson 15 Instruct - Ready Instruction Book	Resources: Toolbox Unit 2 Lesson 15 Instruct - Interactive Tutorial - Understand Multiplication as Scaling	Activity #2: Compare Edited Pictures- Revisit Activity #1 above, but now compare the model of the newly resized photo to the original, untouched photo. Repeat with multiple scenarios.	scenarios)	math (Reneat with multiple		Demonstrate the two scenarios	Solve the two scenarios	 Class discussion of what they think will happen 	1½ of a picture.	taking ½ of a picture versus taking
														RTI activities	student-led activities

student-led activities	"halving" a recipe and also by doing $1\frac{1}{2}$ times as much of a	Toolbox		
iReady Toolbox	Have students "adjust" the ingredient quantities in recipes by	Assessment Assessment		multiplication of fractions and mixed numbers
Modifications per students' IEP	Activity #1: Adjust Recipes:	Exit Slips	Recall that the keyword "of" means multiply with fractions.	5.NF.B.6 – WALT solve real world problems involving
	IXL M.22 IXL M.19			
	IXL Grade 5 lessons:			
	GO Math textbook			
	Resources:			
	Knowing the Identity Property of Multiplication, it would not change the value and thus simply creates an equivalent fraction.			
	observations - leading to n/n really is just n divided by n which would always equal 1.			
	of the problems mathematically. Class discussion of	assessment		
	observations after solving all	standards		
	have students	GO Math		
RTI activities	 Provide multiple versions of the problem stated above and 	assessment		equivalent fraction
iReady Toolbox student-led activities	that require a/b x n/n = a/b x 1)	Assessment	any number divided by itself equals 1.	the same effect as multiplying a/b by 1 and creates an
students' IEP	Solve & Observe- (Observations of multiple problems	Standards	numerator and denominator in a fraction, this equals 1 whole because	5.NF.B.50. – WALI multiplying a fraction a/b by $n/n (a/b = (n \times a))(n \times b)$ has
Modification	IXL M.25	1		
	IXL M.23 IXL M.24			
ķ	IXL Grade 5 lessons:			
	Scaling			

fraction as division of the numerator by the denominator using visual fraction models or equations 5.NF.B.3 – WALT solve word problems involving division of whole numbers resulting in a									
Recall that the fraction bar means to divide. Thus, a fraction could be thought of as the numerator divided by the denominator. Recall that when writing a fraction as division to represent a story, the object you are breaking apart is the numerator.									
Exit Slips Standards Assessment Toolbox assessment GO Math standards								standards assessment	assessment
Activity #1: Fractions as Division Hands-on- Have students act out scenarios in which they are splitting an object among a certain number of students Have students break apart the objects (or use pattern blocks to represent the objects) and	IXL M.13 IXL M.21 IXL M.36	Fraction Word Problems IXL Grade 5 lessons:	GO Math textbook	On-level - Toolbox Unit 2 Lesson 16 Student-led Activities - Real- World Multiplication Situations	On-level - Toolbox Unit 2 Lesson 16 Student-led Activities - Write a Word Problem	Toolbox Tools for Instruction Teacher-led Activities - Tools for Instruction	Toolbox Unit 2 Lesson 16 Practice - Practice & Problem Solving Book	Resources: Toolbox Unit 2 Lesson 16 Instruct - Ready Instruction Book	recipe. Repeat with other fractions/mixed #s.
Modifications per students' IEP iReady Toolbox student-led activities RTI activities								0	RTI activities

YAYY HONIYATAYO	Standard algorithm Discuss how the models relate	GO Math		and interpret the quotients of a non-zero whole number by a
RTI activities	 Model using fraction strips Drawing models 	Toolbox	fractions means to divide.	5.NF.B.7b - WALT compute
iReady Toolbox student-led activities	Fractions Modeling with Fraction Strips	Assessment	Recall that "share equally," "split equally," "cut into pieces," with	unit fraction by a non-zero whole number **
Modifications per students' IEP	Activity #1: Dividing Whole-numbers by Unit	Exit Slips	Draw models to solve dividing Whole-numbers and unit fractions.	5.NF.B.7a. – WALT compute and interpret the quotients of a
	IXLK IXLK.16			
	IXL Grade 5 lessons:			
	Khan Academy Fractions as Division			
	GO Math textbook			
	Resources:			
	division problems that were given to them • Solve each other's word problems			
	 scenarios Discuss the answers and how they support the fraction as 			
	Create word problems Draw/solve the word problem			
	Activity #2: Create Your Own Word Problems- Have students create word problem stories to support specific fractions			
	expression is being created Solve for the answer			
		assessment		fraction or mixed number quotient

			solve problems involving information presented in line plots	5.MD.B.2 – WALT use plot, you ar fraction - n		5.MD.B.2 – WALT make a line plot to display a data set of measurements in fractions of a you have fi								
				epetitively adding that simply counting the		Recall that each "X" on the line plot has value attached to it. So, when you have fractions on a line plot and St								
			GO Math standards assessment	Toolbox assessment	Assessment	Exit Slips Standards								
Toolbox Unit 4 Lesson 23 Practice - Practice & Problem Solving Book	Toolbox Unit 4 Lesson 23 Instruct - Ready Instruction Book	Resources: Toolbox Unit 4 Lesson 23 Instruct - Interactive Tutorial - Make Line Plots & Interpret Data	 Create a line plot with the students Have the students make various calculations such as average length, total length for a specific measurement, etc. 	string under an inch (designate 4 fractional sizes under an	 Give each student a length of 	Activity #1: Create a Line Plot using Varying Lengths of String	IXL N.7	IXL N.2 IXL N.3	IXL Grade 5 lessons:	Khan Academy Divide Fractions	GO Math textbook	On-level - Toolbox Unit 2 Lesson 18 Student-led Activities	Toolbox Unit 2 Lesson 18 Practice - Practice & Problem Solving Book	- Ready Instruction Book
				RTI activities	iReady Toolbox student-led activities	Modifications per students' IEP								

IXL Grade 5 lessons: IXL V.11		
GO Math textbook Khan Academy Line Plots		
On-level - Toolbox Unit 4 Lesson 23 Student-led Activities - Fractions as Data		
On-level - Toolbox Unit 4 Lesson 23 Student-led Activities - Line Plot Vocabulary Match		
Toolbox Tools for Instruction Teacher-led Activities - Tools for Instruction		

5.NF.4 Modifications per IEPs	Benchmark Assessment	Benchmark Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
	5.NF.4	Modifications per IEPs

Benchmark Assessment 2

5.NF.5, 5.MD.2 Modifica	Benchmark Assessment Modific
Modifications per IEPs	Benchmark Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections

Summative Assessments (add rows as needed)

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5.NF.4 assessment	Modifications per IEPs
5.NF.5 assessment	
5.MD.2 assessment	

Interdisciplinary Connections

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Open-ended and Extended Constructed Responses - Students will be given real-world	Modifications per students' IEP
mathematical scenarios in which they have to analyze, solve, and provide written explanations to support their mathematical reasoning.	Tiered questions

Unit IV Module A

-Module A Unit Title: Mathematics - The Coordinate System and Classifying Two-Dimensional Figures - Unit 4

Grade level: Grade 5

Timeframe: 2 weeks

Rationale

Grade 5 - The Coordinate System and Classifying Two-Dimensional Figures - Unit 4

and subcategories to classify two-dimensional figures in a hierarchy based on their properties. to a category of two-dimensional figures also belong to all subcategories of that category. They use this new understanding of categories numerical expressions, learners extend their understanding of classifying figures into categories to understand that attributes belonging rules. They analyze and identify apparent relationships between corresponding terms. After revisiting their earlier work writing simple Learners also form ordered pairs that they have generated using two given rules to generate two numerical patterns using two given the first quadrant of the coordinate system and represent real world and mathematical problems by graphing points in that quadrant. The focus of Unit 4 is defining a coordinate system and understanding the relationship between coordinates and axes. Learners define

Essential Questions

What is a "coordinate system"?

What is an "ordered pair," and how does it aid in plotting a point?

What do the x-coordinate and y-coordinate represent in relation to the x-axis and y-axis?

What is the "origin," and why it is important?

How can you use ordered pairs and plotting points to represent real world data? How can you represent two patterns by using ordered pairs and points?

Standards

Standards (Taught and Assessed):

- and x-coordinate, y-axis and y-coordinate) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates. far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond (e.g., x-axis Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how 5.G.A.1 Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin)
- coordinate values of points in the context of the situation. 5.G.A.2 Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret

pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane. For example, given the rule "Add 6" and the starting number 0, generate terms in the resulting sequences, and observe that the terms in one sequence are twice the corresponding terms in the other sequence. Explain informally why this is so. **5.0.A.1** Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols. 5.OA.B.3 Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered

5.0A.A.2 Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating

Major Cluster

Supporting Cluster

Additional Cluster

Highlighted Career Ready Practices and 21. Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee.
- CRP2. Apply appropriate academic and technical skills.
- CRP4. Communicate clearly and effectively and with reason
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management

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- Social Awareness

- Responsible Decision-Making

Instructional Plan

Pre-Assessment and Reflection

Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
Standards Pre-Assessment	tandards Pre-Assessment Tiered Instruction - 3 levels
	Modifications per students' IEPs
	RTI

Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

(99		
SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.G.A.1 - WALT a coordinate system is defined	Recall that the x-coordinate comes first before the y-coordinate in an	Exit Slips	Activity #1: Direct Instruction of Identifying Key	Modifications per students' IEP
by a pair of perpendicular lines called axes with the intersection of the lines, the	ordered pair similar to the letter "x" coming before the letter "y" alphabetically.	Standards Assessment Toolbox	Points of a Coordinate Plane- Have students look at a sample graph and highlight/label the following:	iReady Toolbox student-led activities
origin, occurring at 0 on each line	Recall that to plot a point, you must	assessment	• X-axis	RTI activities
SCA1-WALT a given	up the y-axis second (think	GO Math	• X-coordinate	
point in the coordinate plane	атриаоенсату).	assessment	• Origin	
is located using an ordered			 Ordered Pair 	
pair of numbers called coordinates			• Point	
5.G.A.1 - WALT the first			Battleship Activity	
number in an ordered pair indicates how far to travel			Activity #3:	
from the origin in the			Mystery Ficture Activity	
second number indicates how			Resources: Toolbox Unit 5 Lesson 28 Instruct -	
far to travel in the direction of the second axis.			Interactive Tutorial - Understand the Coordinate Plane	
5.G.A.1 - WALT the names of the two axes and the			Toolbox Unit 5 Lesson 28 Instruct - Ready Instruction Book	
coordinates correspond (e.g., x-axis and x-coordinate, y-			Toolbox Unit 5 Lesson 28 Practice - Practice & Problem Solving Book	
			Toolbox Tools for Instruction	

	Go Math textbook			
	Resources: On-level - Toolbox Unit 5 Lesson 29 Student-led Activities - Use Graphs to Answer Questions	GO Math standards assessment		coordinate values of points in the context of the real world and mathematical problems
RTI activities	Create a Line Graph by Polling Class & Discuss Meaning of the Points	Toolbox assessment		coordinate plane 5.G.A.2 - WALT interpret
iReady Toolbox	Activity #2:	Assessment	coordinate is second.	in the first quadrant of the
Modifications per students' IEP	Activity #1: Relating Points to the Real World - Meerkat Activity	Exit Slips Standards	When creating ordered pairs from a table, remember that the x-	5.G.A.2 - WALT represent real world and mathematical
	IXL T.3 IXL T.8			
	IXL Grade 5 lessons:			
	Khan Academy Coordinate Plane			
	Go math textbook			
	On-level - Toolbox Unit 5 Lesson 29 Student-led Activities - Moves on a Coordinate Plane			
	Toolbox Tools for Instruction Teacher-led Activities - Tools for Instruction			
	Toolbox Unit 5 Lesson 29 Practice - Practice & Problem Solving Book			
	Toolbox Unit 5 Lesson 29 Instruct - Ready Instruction Book			
	On-level - Toolbox Unit 5 Lesson 28 Student-led Activities			
	Teacher-led Activities - Tools for Instruction			

							two patterns and graph the ordered pairs on a coordinate plane	5.OA.B.3 – WALT form ordered pairs consisting of corresponding terms from the	patterns	relationships between corresponding terms in the	5.OA.B.3 – WALT generate two numerical patterns using two given rules and identify.	
								coordinates and the second pattern will be your y-coordinates.	The first pattern will be your x-	pattern/rule on consecutive terms to ensure the pattern/rule is correct.	Look at two consecutive terms and compare their values. Repeat this until you find a pattern. Test the	
								GO Math standards assessment	assessment	Assessment Toolbox	Exit Slips Standards	
Go Math textbook Khan Academy Number Patterns	On-level - Toolbox Unit 3 Lesson 20 Student-led Activities - Plot Points	On-level - Toolbox Unit 3 Lesson 20 Student-led Activities - Use Number Sequence Vocabulary	Toolbox Tools for Instruction Teacher-led Activities - Tools for Instruction	Toolbox Unit 3 Lesson 20 Practice - Practice & Problem Solving Book	Toolbox Unit 3 Lesson 20 Instruct - Ready Instruction Book	Toolbox Unit 3 Lesson 20 Instruct - Interactive Tutorial - Practice: Analyze Patterns & Relationships	Resources: Toolbox Unit 3 Lesson 20 Instruct - Interactive Tutorial - Analyze Patterns & Relationships	 two patterns using two rules Create order pairs from the table Plot points on a coordinate plane 	Have students create a table of	Activity #2: Create a Table-	Activity #1: Direct Instruction	Khan Academy Coordinate Plane
									RTI activities	iReady Toolbox student-led activities	Modifications per students' IEP	

	highlighting/breaking down each step of the word problems in order to then show how it contributes to creating a numerical expression.			
	Activity #2: Using example word problems that involve fractions, aid students in	GO Math standards assessment		numerical expressions to compare their values without evaluating them
RTI activities	show how it contributes to creating a numerical expression.	Toolbox assessment		numbers 5.OA.A.2 – WALT interpret
iReady Toolbox student-led activities	highlighting/breaking down each step of the word problems in order to then	Assessment	spent, lett over, etc.	from a description that record calculations with
Modifications per students' IEP	Activity #1: Using example word problems that	Exit Slips	Highlight keywords such as "each," "every," "times," "more," "less,"	5.OA.A.2 – WALT write simple numerical expressions
	IXL 0			
	IXL 0.5 IXL 0.6			
	IXL Grade 5 lessons:			
	Khan Academy Algebraic Thinking lessons			
	GO Math textbook			
	Resources: Toolbox Unit 3 Lesson 19 Instruct - Interactive Tutorial - Numerical Expressions and Order of Operations	GO Math standards assessment	When you have groups within groups, solve the smallest group first and work your way out to the largest group.	5.O.A.1 – WALT use parentheses, brackets, or braces to group parts of a numerical expression
RTI activities	Solve Numerical Expressions involving Fractions	Toolbox assessment	that is being solved at each step.	containing tractions and decimals)
iReady Toolbox student-led activities	involving Decimals Activity #2:	Standards Assessment	out each letter of PEMDAS as each step is completed. Highlight or underline each part of the expression	parentheses, brackets, and braces, including expressions
Modifications per students' IEP	Activity #1: Solve Numerical Expressions	Exit Slips	Use "PEMDAS" or "GEMDAS" to solve numerical expressions. Cross	5.0.A.1 – WALT evaluate
	IXL U.9		-	
	IXL Grade 5 lessons:			

네티 다리 이외의 이외 이외의 이외의 유 지리	스프 라마트 200 오디티핀 디즈 디
Problem Solving Book Toolbox Unit 3 Lesson 19 Teacher- led Activities - Tools for Instruction On level - Toolbox Unit 3 Lesson 19 Student-led Activity - Less Than, Equal to, Greater Than On level - Toolbox Unit 3 Lesson 19 Student-led Activity - Make It True On level - Toolbox Unit 3 Lesson 19 Student-led Activity - Write a Numerical Expression On level - Toolbox Unit 3 Lesson 19 Student-led Activity - Find the Expression Go Math textbook Khan Academy Algebraic Thinking lessons	Activity #3: Have students create their own word problems (involving decimals and fractions) and the corresponding numerical expressions. Students can exchange word problems and try to come up with the correct numerical expressions. Resources: Toolbox Unit 3 Lesson 19 Instruct - Interactive Tutorial - Write and Evaluate Expressions Toolbox Unit 3 Lesson 19 Instruct - Ready Instruction Book Toolbox Unit 3 Lesson 19 Instruct - Ready Instruction Book

IXI	IXI
IXL 0.3 IXL 0.4	IXL Grade 5 lessons:

Benchmark Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.G.1	Modifications per IEPs
5.G.2	

Benchmark Assessment 2

5.OA.3 Modifications per IEPs	Benchmark Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and
	4) and Reflections

Summative Assessments (add rows as needed)

Summative Assessment	Summative Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.G.1 assessment	Modifications per IEPs
5.G.2 assessment	
5.OA.3 assessment	

Interdisciplinary Connections

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and
	Reflections
Open-ended and Extended Constructed Responses - Students will be given real-world	Modifications per students' IEP
mathematical scenarios in which they have to analyze, solve, and provide written explanations to support their mathematical reasoning.	Tiered questions

Unit IV Module B

Unit Title: Mathematics - The Coordinate System and Classifying two Dimensional Figures - Unit 4

Module B Timeframe: 2 weeks

Grade level: Grade 5

Rationale

Grade 5 - The Coordinate System and Classifying Two-Dimensional Figures - Unit 4

and subcategories to classify two-dimensional figures in a hierarchy based on their properties. to a category of two-dimensional figures also belong to all subcategories of that category. They use this new understanding of categories numerical expressions, learners extend their understanding of classifying figures into categories to understand that attributes belonging rules. They analyze and identify apparent relationships between corresponding terms. After revisiting their earlier work writing simple Learners also form ordered pairs that they have generated using two given rules to generate two numerical patterns using two given the first quadrant of the coordinate system and represent real world and mathematical problems by graphing points in that quadrant. The focus of Unit 4 is defining a coordinate system and understanding the relationship between coordinates and axes. Learners define

Essential Questions

How do the number of the sides, vertices, and angles of a two-dimensional figure aid in classifying it? How can identifying angles and congruent sides aid in classifying triangles? How can identifying parallel lines, perpendicular lines, congruent sides, congruent angles, and right angles aid in classifying quadrilaterals? What does the word "classify" mean, and how is it helpful when looking at two-dimensional figures?

Standards

Standards (Taught and Assessed):

example, all rectangles have four right angles and squares are rectangles, so all squares have four right angles 5.G.B.3 Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category. For

5.G.B.4. Classify two-dimensional figures in a hierarchy based on properties.

Key: Major Cluster Supporting Cluster

Additional Cluster

Highlighted Career Ready Practices and 21. Century Themes/Skills

- 9.1.4.A.1 Recognize a problem and brainstorm ways to solve the problem individually or collaboratively.
- 9.1.4.A.2 Evaluate available resources that can assist in solving problems.
- 9.1.4.A.5 Apply critical thinking and problem-solving skills in classroom and family settings.
- 9.2.4.A.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.
- CRP1. Act as a responsible and contributing citizen and employee
- CRP2. Apply appropriate academic and technical skills
- CRP4. Communicate clearly and effectively and with reason.
- CRP6. Demonstrate creativity and innovation.
- CRP8. Utilize critical thinking to make sense of problems and persevere in solving them.
- CRP11. Use technology to enhance productivity.

Social-Emotional Learning Competencies

- Self-Awareness
- Self-Management
- Social Awareness

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- Relationship Skills
- Responsible Decision-Making

Instructional Plan

Pre-Assessment and Reflection

Pre-Assessment	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Kellections
Standards Pre-Assessment	Standards Pre-Assessment Tiered Instruction - 3 levels
	Modifications per students' IEPs
	RTI

Student Learning Objectives (SLO), Strategies, Formative Assessment, Activities and Resources (add rows as needed)

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SLO – WALT We are learning to/that	Student Strategies	Formative Assessment	Activities and Resources	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.G.B.3 – WALT the	Recall that two-dimensional figures each have the same amount	Exit Slips	Activity #1: Make Observations & Create a	Modifications per students' IEP
category of two-dimensional	of sides, angles, and vertices.	Standards Assessment	Chart of Two-dimensional Figures	iReady Toolbox student-led
rightes also belong to all	Count up the sides, angles, and/or	3 ±		activities
anomogonios	vertices to identify two-	Toolbox	Drawing of Polygon Dolygon	RTI activities
5.G.B.3 5.G.B.4 - WALT	dimensional figures.	assessment	rorygon name# of sides	INTI COUPERCO
classify two-dimensional	Look for parallel lines,	GO Math	# of angles	
figures in a hierarchy based	perpendicular lines, right angles,	standards	# of vertices	
on properties	obtuse angles, congruent sides,	assessment		
	congruent angles, etc to help		Activity #2:	
	classify two-dimensional figures.		Polygon Scavenger Hunt - Identify polygons in the real-	
	Use matching tick marks to		world	
	angles.		Activity #3:	
	(Create a Hierarchy Flowchart	
			from Observations of the	
			Relationship between Two- dimensional Figures	
			Activity #4:	

Make Observations & Classify Triangles Drawing of Triangles Name of Triangle Name of Triangle Any congruent sides/angles? Activity #5: Triangle Scavenger Hunt- Identify triangles in the real- world Resources: Toolbox Unit 5 Lesson 30 Instruct - Interactive Tutorial - Classify Two-Dimensional Figures Toolbox Unit 5 Lesson 30 Instruct - Ready Instruction Book Toolbox Unit 5 Lesson 30 Instruct - Ready Instruction Book Toolbox Tools for Instruction Teacher-led Activities - Tools for Instruction Teacher-led Activities - Tools for Instruction On-level - Toolbox Unit 5 Lesson 30 Student-led Activities - Organize Polygons on a Venn Diagram On-level - Toolbox Unit 5 Lesson 30 Student-led Activities - Organize Triangles on a Venn Diagram									
Observations & gles gles gles Trawing of Trian Vame of Triang Any congruent ides/angles? Any right or obt ingles? Any right or obt ingles? Ity #5: gle Scavenger F fy triangles in t fy triangles in t fox Unit 5 Lesso ct - Interactive of fy Two-Dimen sox Unit 5 Lesso ct - Ready Instr ct - Ready Instr ox Unit 5 Lesso ct - Ready Instr in 30 Student-leg ifruction vel - Toolbox U 1 30 Student-leg fenn Diagram vel - Toolbox U 1 30 Student-leg fenn Diagram vel - Toolbox U 1 30 Student-leg fenn Diagram vel - Toolbox U 1 30 Student-leg fenn Diagram vel - Toolbox U 1 30 Student-leg fenn Diagram vel - Toolbox U 1 30 Student-leg fenn Diagram vel - Toolbox U 1 30 Student-leg fenn Diagram									
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IXL AA.3	IXL AA.11 IXL Z.9	IXL AA.5 IXL AA.9	IXL Grade 5 lessons:	Go Math textbook

5.G.3 Modifications per IEPs	Benchmark Assessment	Benchmark Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
	5.G.3	Modifications per IEPs

Benchmark Assessment 2

Benchmark Assessment	Benchmark Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections
5.G.4	Modifications per IEPs

Summative Assessments (add rows as needed)

	5.G.4 assessment
Modifications per IEPS	5.G.3 assessment
Summative Assessment Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and Reflections	Summative Assessment

Interdisciplinary Connections

Interdisciplinary Connections	Modifications (ELL, Special Education, Gifted, At-risk of Failure, 504) and
	Reflections
Open-ended and Extended Constructed Responses - Students will be given real-world	Modifications per students' IEP
mathematical scenarios in which they have to analyze, solve, and provide written explanations	
to support their mathematical reasoning.	Tiered questions

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